

ABSTRACT

The digital dynamic convergence error control system for controlling convergence errors is provided. The system includes a convergence error detecting apparatus recognizing crossing points of a screen pattern displayed on a screen of a display device and detecting each amount of convergence errors corresponding to respective crossing points, a main control means generating correction data in response to respective convergence errors and generating interpolation data using the correction data of adjacent crossing points, and a digital dynamic convergence error control apparatus receiving the correction data and the interpolation data from the main control means, storing the correction data and the interpolation data in a memory, converting each of the correction data and the interpolation data into voltage or current in response to respective horizontal synchronization signals extracted from a picture signal, and independently and separately applying the voltage or the current to a magnetic field controlling coil only during a corresponding period of respective horizontal synchronization signals.